



Infrastructure · Water · Environment · Buildings

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Subject:

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
King Highway Landfill Operable Unit 3 Progress Report (August 2012)

ENVIRONMENT

Dear Mr. Krawczyk:

Date:

September 11, 2012

On behalf of Georgia-Pacific LLC (Georgia-Pacific), attached is the August 2012 Monthly Progress Report for the King Highway Landfill Operable Unit 3 (KHL OU) of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site (Site) as per Section XVI of the Administrative Order by Consent (AOC) for the Remedial Design/Remedial Action at the KHL OU, as was fully executed on February 8, 2000. Please note, however, pursuant to Section XVI of the AOC, after a Certificate of Completion of Construction is issued by the Michigan Department of Environmental Quality (MDEQ), as provided in Section XXVII (Certificate of Completion of Construction) of the AOC, reports documenting operation, maintenance, and monitoring activities shall be submitted pursuant to the schedule set forth in the Operation and Maintenance Plan.

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Our ref:

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If you have any questions, please do not hesitate to contact me.

Sincerely,

ARCADIS

Patrick McGuire
Principal Environmental Engineer

Attachment

Copies:

Garry Griffith, P.E., Georgia-Pacific LLC
Daria Devantier, Michigan Department of Environmental Quality
Michael Berkoff, USEPA Region 5
Dawn Penniman, P.E., ARCADIS

**PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE
KING HIGHWAY LANDFILL OPERABLE UNIT 3**

AUGUST 2012

PREPARED SEPTEMBER 11, 2012

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

**KEITH KRAWCZYK, PROJECT COORDINATOR
REMEDICATION AND REDEVELOPMENT DIVISION**

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

**Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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August 2012 Monthly Progress Report**

Remedial Activities

- On August 7, Georgia-Pacific LLC (Georgia-Pacific) participated in an inspection of the King Highway Landfill Operable Unit 3 (KHL OU) with the United States Environmental Protection Agency (USEPA) and Michigan Department of Environmental Quality (MDEQ) as part of USEPA's 5-year review of the KHL OU.
- On August 13, ARCADIS submitted to MDEQ the July 2012 Monthly Progress Report.
- On August 17, ARCADIS provided the USEPA with the text of the January 2012 DRAFT FINAL *Report for Completion of Construction* (Completion Report) to facilitate USEPA's 5-year review of the KHL OU.
- On August 21, ARCADIS provided the USEPA with a summary table presenting the groundwater analytical results since USEPA's last 5-year review of the KHL OU.

Operation, Maintenance and Monitoring Activities

- On August 1, ARCADIS submitted to MDEQ the validation report associated with the 2012 annual groundwater sampling event (SDG #200-11159), along with a groundwater analytical results summary table.
- On August 9, Georgia-Pacific provided the USEPA with a revised figure of the stressed vegetation areas at the KHL differentiating the stressed vegetation area where methane had been detected from the remaining areas of stressed vegetation.
- On August 13, Georgia-Pacific provided the USEPA with a revised figure of the stressed vegetation areas at the KHL based on the August 7, 2012 site visit, where an additional area of stressed vegetation was identified.
- On August 14, ARCADIS provided notification to MDEQ of the anticipated schedule for implementation of the geomembrane liner and stressed vegetation repairs in accordance with the June 27, 2012 Vegetation Sampling Results and Work Plan.
- On August 15, ARCADIS submitted to MDEQ a letter presenting the results of the north pore water outlet and final cover soil sampling conducted on May 31, 2012.
- On August 23, ARCADIS conducted the 2012 3rd quarter landfill gas monitoring event at the KHL OU.
- On August 24, ARCADIS conducted the 2012 3rd quarter landfill inspection of the KHL OU.

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- On August 27, Terra Contracting, LLC (Terra) hydro-excavated the stressed vegetation area where methane was detected in the soil above the lower explosive limit down to the 40 mil linear low-density polyethylene (LLDPE) liner. Chesapeake Containment Systems, Inc. (Chesapeake) identified a tear and several small holes in the geomembrane liner. Terra also used the hydro-excavation equipment to locate the south pore water outlet pipe.
- On August 28, Chesapeake cut and removed the damaged geomembrane liner and replaced it with a new piece of 40 mil LLDPE liner; the replacement liner came from the Willow Boulevard/A-Site Operable Unit construction project, which has been quality control/quality assurance tested in accordance with design specifications. The new liner patch was extrusion welded to the existing liner and then vacuum box testing was performed on the new seam to create a secure weld between the patch and existing liner.
- On August 29, Terra backfilled the area of patched liner with an approximate 2-foot layer of general fill and a 6-inch layer of topsoil, and then prepared/graded the area for seeding. Terra placed additional topsoil in the low-lying portion of the drainage swale located along the access road on the north side of the landfill.
- On August 30, Terra placed additional topsoil and regraded two additional areas of stressed vegetation for seeding and mulching to be completed the following day.
- On August 31, Terra extended the south pore water outlet pipe to the western riprap spillway, and Cardno JFNew seeded and mulched the four areas of topsoil on the final cover system of the KHL. Please note that only four of the seven areas of stressed vegetation originally identified in the June 27, 2012 *Stressed Vegetation Sampling Results and Work Plan* were repaired with an application of topsoil, seed, and mulch, as recent rainfall had improved the grass growth in these areas to a point where topsoil, seed, and mulch was no longer required.

Upcoming Activities

- By September 21, ARCADIS will submit the 2012 3rd quarter landfill gas monitoring report to MDEQ.
- By September 24, ARCADIS will submit the 2012 3rd quarter landfill inspection report to MDEQ.
- In September, Georgia Pacific anticipates that the Restrictive Covenant and associated easements and access agreements will be finalized.
- By October 31, ARCADIS is scheduled to submit a summary report documenting the completion of repairs to the geomembrane liner and stressed vegetation areas.

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- ARCADIS will provide a recommended alternative approach to the current practice of physically measuring steady-state water levels prior to the next annual groundwater monitoring event at the KHL OU, which is tentatively scheduled for May 2013.
- Georgia-Pacific awaits the receipt of MDEQ's comments on the revised Operation and Maintenance Plan (Deliverable 12) and Completion Report (Deliverable 14).